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10/764,527	01/27/2004	Tetsuro Motoyama	245419US2	8977
22850 7590 08/28/2007 OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			FEARER, MARK D	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			2143	
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			08/28/2007	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	10/764,527	MOTOYAMA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Mark D. Fearer	2143			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from to become ABANDONEI	I.  ely filed  the mailing date of this communication.  O (35 U.S.C. § 133).			
Status					
	Responsive to communication(s) filed on <u>27 January 2004</u> .				
,_					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	•				
4) ⊠ Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-23 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on 27 January 2004 and 10 Examiner.		oted or b) ☐ objected to by the			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date See Continuation Sheet.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

**Continuation Sheet (PTOL-326)** 

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :4/26/04, 11/9/04, 3/18/05, 10/26/05, 12/21/05, 5/1/06, 6/27/06, 12/1/06.

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## **DETAILED ACTION**

### Information Disclosure Statement

The information disclosure statements submitted on 26April2004, 09November2004, 18March2005, 26October2005, 21December2005, 01May2006, 27June2006, and 01December2006 have been considered by the Examiner and made of record in the application file.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art only under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 103(a) might be overcome by: (1) a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not an invention "by another"; (2) a showing of a date of invention for the claimed subject matter of the application which corresponds to subject matter disclosed but not claimed in the reference, prior to the effective U.S. filing date of the reference under 37 CFR 1.131; or (3) an oath or declaration under 37 CFR 1.130 stating that the application and reference are currently owned by the same party and that the inventor named in the application is the prior inventor under 35 U.S.C. 104, together with a terminal disclaimer in accordance with 37 CFR 1.321(c). This rejection might also be overcome by showing that the reference is disqualified under 35 U.S.C. 103(c) as prior art in a rejection under 35 U.S.C. 103(a). See MPEP § 706.02(l)(1) and § 706.02(l)(2).

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Claims 1-3, 5-11, 13-18, and 20-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson et al. (US 20020091815 A1) in view of Brown et al. (US 6209037 B1) in further view of Farrell et al. (US 5218680 A).

Consider claims 1-3, 9-11, and 16-18. Anderson et al. discloses a system and method wherein the status of a network device is checked using a selected protocol (("FIG. 2 illustrates a high-level logical representation of a system of the invention. A network enabled device 200, or a software application executing on that device, is to be monitored as a component of an enterprise. Examples of such devices are servers, workstations, network appliances and network printers as mentioned in connection with enterprise 100 from FIG. 1. Device 200 reports status information messages to a gateway 202 using a particular protocol, two examples of protocols being HTTP and TCP socket based protocols. Such messages may be initiated by an event, such as a timer expiring or an error condition, or by a status request message from gateway 202.") paragraph 0035). However, Anderson et al. fails to disclose a system and method comprising matching a protocol with a device model, or attempting a generic device, or further testing if said protocol supports said device. Brown et al. discloses different models of motion control devices that define their own communication protocol (("Each brand or model of motion control device contains communication software that defines a communication protocol that is responsible for transmitting control codes and receiving response codes used to control the hardware to perform motion operations and to retrieve codes describing the results of the operation. This internal communication software is machine specific, and an application program written to communicate using

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the communication protocol associated with one brand or model of motion control device will likely not be able to communicate with the communication protocol associated another brand or model of motion control device.") column 2 lines 21-33) a generic device driver (("The driver 30 is used by both the driver administrator 32 and the component 35. Its main purpose is to implement functionality that generates motion control commands for the specific hardware supported. For example, the AT6400 driver, used to control the Compumotor AT6400 motion control hardware, generates AT6400 command codes. During the initialization phase of the system 22, the driver administrator 32 communicates with each driver 30, allowing the user to add, remove, or change the configuration of the driver. When an application, using the system 22, is run, the component 35 communicates with the driver 30 directing it to carry out the appropriate motion control operations. This section describes the complete design of a generic driver 30. All drivers are designed from the base design described in this manual. This section is divided into three parts. First, a module interaction-map that describes all binary modules that interact with the driver 30 is discussed. Next, the module interaction-map is drawn as an object interaction-map, where all the internals of the driver are exposed. In this map, all C++ objects, making up the driver, and their interactions are shown. Next, several scenario-maps are drawn. Each scenario-map displays the interactions taking place between the C++ objects involved during a certain process. Finally, this section describes the interfaces exposed by the driver component, all data structures used, and the definitions of each C++ class used.") column 12 lines 39-64) and further testing after communication is established (("Next, the CModuleMgr

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creates a new CsimpleStream object and directs it to verify and load the stream component. The CSimpleStream first verifies that the module is actually an stream component 28 by calling its exported DLLGetModuleType function. If the function returns XMC STREAM\_MT, the CSimpleStream continues and registers the stream component by calling its DLLRegisterServer exported function. Finally, the CsimpleStream object queries the new module for its CLSID by calling the module's exported DLLGetCLSID function. The new CLSID is used, by the CSimpleStream, to load the stream component using the standard OLE function CoCreateInstance. If the CsimpleStream succeeds, the CLSID of the stream is passed along to the CSimpleDriver who is directed to register the stream. The CSimpleDriver passes the CLSID to the driver component and directs it to register the stream.") column 24 lines 65-67 and column 25 lines 1-13). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate a system and method comprising matching a protocol with a device model, attempting communication using a generic device, and further testing if said protocol supports said device as taught by Brown et al. with a system and method wherein the status of a network device is checked using a selected protocol as taught by Anderson et al. for the purpose of remote network device management. However, Anderson et al., as modified by Brown et al., fails to disclose a system and method for removing protocol information from a device. Farrell et al. discloses a system and method comprising removal of protocol related framing information (("... autonomously performed protocol framing functions (insertion / removal of protocol related framing information on transmission/reception),

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enables the subject device to further relieve the host system of functional responsibilities normally assumed at a higher level within the host system.") column 4 lines 67-68 and column 5 lines 1-4 ("Detection and deletion of protocol specific characters and control signal patterns from data passed to RV; e.g. HDLC flag characters (01111110), idle patterns (15 or more consecutive 1's), and abort patterns (7 to 14 consecutive 1's). As such characters and patterns are detected they are discarded (not passed to RV).") column 53 lines 44-50).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate a system and method comprising removal of protocol related framing information as taught by Farrell et al. with a system and method comprising matching a protocol with a device model, attempting communication with a generic device, further testing if said protocol supports said device, and the status of a network device being checked using a selected protocol as taught by Anderson et al., as modified by Brown et al., for the purpose of configuring networks and devices.

Consider claims 5, 13, and 20, and as applied to claims 1, 9, and 16, respectively. Anderson et al., as modified by Brown et al. and Farrell et al., further discloses a method wherein the step of determining if a network device can be accessed comprises: transmitting, to the network device, information for accessing the network device using a selected communication protocol; receiving, by the network device, the transmitted information; and determining if the network device responds to the received information indicating that the network device can be accessed using the

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selected communication protocol (("Each brand or model of motion control device contains communication software that defines a communication protocol that is responsible for transmitting control codes and receiving response codes used to control the hardware to perform motion operations and to retrieve codes describing the results of the operation. This internal communication software is machine specific, and an application program written to communicate using the communication protocol associated with one brand or model of motion control device will likely not be able to communicate with the communication protocol associated another brand or model of motion control device. Accordingly, it would be desirable for a programmer to be able to write an application program that is independent of the hardware communication protocol so that the application program may be used with different hardware devices without modification by the programmer.") Brown et al., column 2 lines 22-38).

Consider claims 6 and 21, and as applied to claims 1 and 16, respectively.

Anderson et al., as modified by Brown et al and Farrell et al., discloses a method comprising: selecting, obtaining, determining, removing, and performing steps for each protocol of the plurality of communication protocols. Anderson et al. further discloses a method comprising repeating a process until a queue is empty (("At the top of the loop, a decision 902 is made as to whether or not there are any messages in the high priority queue. If there are, execution continues to step 906, in which the first, or oldest, message is selected in the high-priority queue. Execution continues from step 906 to step 908, in which the selected message is sent to the superintendent system.

Execution then continues from step 908 to step 910, in which the message is removed

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from the high-priority queue preventing a duplicate sending, following which the loop is repeated at step 902. If there was not a message in the high priority queue on execution of step 902, decision 904 is executed directing further execution on the basis of a message in the low priority queue. If no message is pending, the loop is repeated at step 902, optionally including a delay in step 918 so unnecessary processor cycles are not consumed. If there is a message in the low priority queue execution proceeds from step 904 to step 912, in which the first, or oldest, message in the low priority queue is selected. Execution proceeds from step 912 to step 914, in which the selected message is sent to the superintendent system. Execution then proceeds from step 914 to step 916, in which the selected message is removed from the low priority queue. Following execution of step 916 the loop is repeated at step 902.") Anderson et al., paragraph 0063).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate a method comprising repeating a process until a queue is empty as taught by Anderson et al. with a method comprising: selecting, obtaining, determining, removing, and performing steps for each protocol of the plurality of communication protocols as taught by Anderson et al., as modified by Brown et al. and Farrell et al., for the purpose of obtaining status information of a network device.

Consider claims 7, 14, and 22, and as applied to claims 1, 9, and 16, respectively. Anderson et al., as modified by Brown et al. and Farrell et al., further discloses a method wherein a selecting step comprises: selecting the communication

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protocol among SNMP, HTTP, and FTP (("SNMP translator 214 is a software system that receives request messages for a particular device 200 from enterprise management system 216 using the enterprise management system protocols, SNMP being one possible protocol. Such request messages may include, but are not restricted to, requests to configure device settings and requests for status information. The request message is converted into one or more messages in the notification channel protocol, intending to cause a response from the particular device 200 with the information required by the request message. Such conversion is facilitated by information from MIB mapper 218. The converted messages are placed into notification channel 208, and received by a gateway 202 subscribed to receive messages for the particular device. Gateway 202 translates each message into the protocol used by the particular device 200 and transmits them thereto. If in condition to respond, the particular device 200 then submits a response for each message to SNMP translator 214 through gateway 202 and notification channel 208. SNMP translator 214 then builds and submits a response to the original request message to enterprise management system 216 in the protocol used thereto.") Anderson et al., paragraph 0042).

Consider claims 8, 15, and 23, and as applied to claims 1, 9, and 16, respectively. Anderson et al., as modified by Brown et al. and Farrell et al., discloses a method comprising further testing steps after a communication has been established (("Next, the CModuleMgr creates a new CsimpleStream object and directs it to verify and load the stream component. The CSimpleStream first verifies that the module is actually an stream component 28 by calling its exported DLLGetModuleType function. If

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the function returns XMC STREAM MT, the CSimpleStream continues and registers the stream component by calling its DLLRegisterServer exported function. Finally, the CsimpleStream object queries the new module for its CLSID by calling the module's exported DLLGetCLSID function. The new CLSID is used, by the CSimpleStream, to load the stream component using the standard OLE function CoCreateInstance. If the CsimpleStream succeeds, the CLSID of the stream is passed along to the CSimpleDriver who is directed to register the stream. The CSimpleDriver passes the CLSID to the driver component and directs it to register the stream.") Brown et al., column 24 lines 65-67 and column 25 lines 1-13). However, Anderson et al., as modified by Brown et al. and Farrell et al., fails to disclose a method comprising further testing steps after a communication has been established wherein the selected protocol is SNMP. Anderson et al. discloses a system and method wherein an original SNMP message is wrapped into a notification protocol message by including the SNMP message in the substantive message field (("A message in the notification protocol must contain at least two information fields. One required field is an identifier for the sender. The other required field is a substantive message that is meaningful to the destination. In a preferred embodiment a service identifier and security token is provided, whereby the message may be authenticated against a number of service types. In that preferred embodiment a severity declaration is also provided, whereby messages of higher importance may be specially treated. Optional fields may contain the time the message was generated or created, the time the message was received at the destination, the subsystem that originated the message, the object oriented method that originated the

message, and a plain text error message. Optionally an SNMP OID may be contained in the message to facilitate delivery to the destination. In a preferred embodiment an original SNMP message is wrapped into a notification protocol message by including the SNMP message in the substantive message field.") Anderson et al., paragraph 0037).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate an original SNMP message is wrapped into a notification protocol message by including the SNMP message in the substantive message field as taught by Anderson et al. with a method comprising further testing steps after a communication has been established as taught by Anderson et al., as modified by Brown et al. and Farrell et al., for the purpose of determining the status of network devices.

Claims 4, 12, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson et al. (US 20020091815 A1) in view of Brown et al. (US 6209037 B1) in further view of Farrell et al. (US 5218680 A) and in further view of Austin et al. (US 4885684 A).

Consider claims 4, 12, and 19, and as applied to claims 1, 9, and 16, respectively. Anderson et al., as modified by Brown et al. and Farrell et al., discloses a system and method comprising obtaining information from a device object, matching a protocol with a device model, attempting communication with a generic device, further testing if said protocol supports said device, and the status of a network device being checked using a selected protocol. However, Anderson et al., as modified by Brown et

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al. and Farrell et al., fails to disclose a system and method wherein the obtaining step comprises: obtaining, from the device object, a protocol parameter map comprising at least one entry, wherein each entry comprises a protocol string and a corresponding vector of information used to access the network device using a protocol indicated in the protocol string. Austin et al. discloses a system and method comprising map dimension and resolution parameters, a macro string, an association of an object to a device, and a set of vector addresses (("The SAR graph external interfaces (FIG. 10) include two receive interfaces for command program motion compensation and map rotation control, the sensor-data input and map data output interfaces, and a graph constant interface for specification of the SAR map dimension and resolution parameters. This black box representation of the SAR graph, including detailed specifications of the interface data structures and message formats, illustrates the external graph specification that is used by the command program designer. The internal features of the graph are primarily the concern of the graph programmer.") column 15 lines 57-68 ("A primitive/macro development language, assembler and simulator are provided for the microprogrammable FPPE. A macro string simulator is also provided for the FPPE, to support unit testing of FPPE graph tasks or subtasks. A similar set of microcode tools will be provided for the VSPE and other microprogrammable processing elements as they are added to the CSP architecture.") column 17 lines 14-21 ("After all objects have had their control blocks created the objects will be assigned to an allocation unit (AU). An AU is the smallest relocatable entity known to the operating system. Multiple objects may be grouped into the same AU if the following rules are not broken. They are if the

objects have been assigned to the same device, and if the AU does not become larger than the maximum AU size.") column 20 lines 9-17 ("Group all objects which have been assigned to the same device into list.") column 20 lines 20-21 ("FIG. 15 is an example of one type of resolution for relating the location of control blocks. A master control block shown in FIG. 15 tells the local operating system (LOS) for a particular data processing element, where the control blocks are located for a particular task which is assigned to that data processing element. The contents of the master control block is a set of vector addresses which tells the local operating system how to modify the contents of a local control block is reflect the relationship and locations of other control blocks within the distributed system for other tasks executed on other ones of the data processing elements in the network. The example shown in FIG. 15 keeps track of data paths in the network. Other types of master control blocks will keep track of the location of associated storage elements, addresses of other control blocks, and other information necessary to enable a coordinated operation of the various distributed processing elements in the network.") column 21 lines 3-21).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate a system and method comprising map dimension and resolution parameters, a macro string, an association of an object to a device, and a set of vector addresses as taught by Austin et al. with a system and method comprising obtaining information from a device object, matching a protocol with a device model, attempting communication with a generic device, further testing if said protocol supports said device, and the status of a network device being checked using a

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selected protocol as taught by Anderson et al., as modified by Brown et al. and Farrell et al., for the purpose of object identification.

#### Conclusion

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If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, David Wiley can be reached on (571) 272-3923. The fax phone number for

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the organization where this application or proceeding is assigned is (571) 273-8300.

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Mark Fearer M.D.F./mdf August 20, 2007

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